Table 1 Parameters of Concern and Their Effects on Agricultural Water Quality

Parameters	Effect	Source	Affected	Geographic Area of Concern
			Factors	
Salinity	high	seawater, agricultural	crop yield,	All irrigated areas in Western & Interior
(TDS & EC)		drainage	soil structure, management.	Delta.
Sodium	med	seawater, agricultural	crop yields,	All irrigated areas in Western & Interior
(EC)	 	drainage	sensitive crops	Delta.
			(tree crops,	
			beans, etc.),	
			management.	ļ
Chloride	med	seawater, agricultural	crop yield,	Fresh market produce irrigated areas.
		drainage	plant necrosis,	
			management.	
Boron	med	groundwater	crop yield,	
			drying and	
			chlorosis,	
			management.	
Alkalinity	med		greenhouses,	
(Calcium Carbonate)	1		CACO ₃	
	1		precipitation,	
			soil infiltration,	
			management.	
		delta & tributary	sedimentaion of	
Turbidity		watersheds during flood	open channels,	
		events	clogging of	
	1		sprinkle &	
			trickle systems,	

		soil crusting.	
	wastewater discharge	algae in drains,	
Nutrients		clogging,	
		NO ₃ - beets,	
		grapes, etc	<u> </u>
		rice crop yield	Irrigated rice acreage in the North and Central
Temperature		(cold water	Delta.
		effects on	
·		germination)	
	seawater, agricultural	crop yield,	
BOD/COD	drainage	wildlife	
		(aquatic).	
	seawater, agricultural	crop	
Metals	drainage	concentrations	

SOURCE: Initial report of the Water Quality Technical Advisory Committee, Bay-Delta Oversight Council, Draft, December 1994